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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/662,581 09/15/2003		Santhosh T.N. Kumar	TI-24984.1	9325	
23494	7590 10/03/2005	EXAMINER			
	TRUMENTS INCOR	NGUYEN, MADELEINE ANH VINH			
DALLAS, T	5474, M/S 3999 X 75265		ART UNIT	PAPER NUMBER	
		2626			
			DATE MAILED: 10/03/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		1	Application I	No.	Applicant(s)				
Office Action Summary			10/662,581		KUMAR ET AL.				
		Ī	Examiner		Art Unit				
		l r	Madeleine AV	' Nguyen	2626				
Period fo	The MAILING DATE of this commun or Reply	ication appea	ars on the co	ver sheet with the c	orrespondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)	Responsive to communication(s) file	ed on							
2a)□	•	2b)⊠ This a		final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
-,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)🛛	Claim(s) 1-13 is/are pending in the a	application.							
•	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	☐ Claim(s) is/are allowed.								
. 6)⊠	Claim(s) <u>1-13</u> is/are rejected.								
7)	Claim(s) is/are objected to.								
8)□	Claim(s) are subject to restrict	tion and/or e	election requ	irement.					
Applicati	on Papers		٠						
9)[The specification is objected to by the	e Examiner.							
10)	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority ι	ınder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
Attachment(s)									
1) ⊠ Notic 2) Π Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P	TO-948)	4)	Interview Summary Paper No(s)/Mail Da					
3) 🔯 Inforr	nation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date 1/6/05 . 1/26/05	PTO/SB/08)	•	Notice of Informal P		O-152)			

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DETAILED ACTION

Claim Objections

1. Claims 1, 2, 9 and 13 are objected to because of the following informalities:

In claim 1:

"each said intensity words" in line 6 should be "each of said intensity words"

"first, second and third complementary color" in line 8 should be "first, second and third complementary colors";

"intensity" in lines 17 and 20 should be "intensities"

"scale value" in line 19 should be "a scale value"

In claim 2

"intensity" in line 2 should be "intensities"

In claim 9

"step" in line 1 should be "steps"

In claim 13

"a magnitude portions" should be "a magnitude portion" or "magnitude portions"

2. Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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4. Claims 1-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Concerning claim 1, "providing an intensity word for a first, second, and third color for each four pixels" in lines 4-5 is indefinite since "a" and "color" are in singular while first, second and third are three different colors. Does first, second and third colors" or "providing an intensity word for every three first, second and third colors" or anything else? The same with "for a first, second, and third complementary color" in line 8. The intensity words in line 4-5 are previous claimed for each of four pixels while the initial intensity words are for each pixel.

Concerning claim 9, "adding both the compliment of said magnitude portion and a one to minuend" is indefinite on what "one" is stand for and how to add a compliment to a one to the

minuend.

Concerning claim 13, "adding both the compliment of said magnitude portion and one to minuend" in line 14 is indefinite on what "one" is stand for and how to add a compliment to a

one to the minuend.

5. Claim 1 recites the limitations "said initial complementary color intensity word" in lines 14-15; "said initial combined color intensity word" in lines 15-16; "said combined word" in line 18. There are insufficient antecedent basis for these limitations in the claim.

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Claim 2 recites the limitation "the simultaneous pixel-wise comparison" in lines

1-2. There is insufficient antecedent basis for this limitation in the claim.

Claim 9 recites the limitation "said carry-out" in line 9; "said carry-out bit" in line

12. There is insufficient antecedent basis for this limitation in the claim.

Claim 13 recites the limitation "the number" in line 2; "said magnitude portion" in line 9; "said carry-out" in line 11; "said carry-out bit" in line 14. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 101

6. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 13 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claim 13 is drawn to a computer implemented process that merely manipulates data or an abstract idea, or merely solves a mathematical problem without a limitation to a practical application in the technological arts.

In order for a claimed invention to accomplish a practical application, it must produce a "useful, concrete and tangible result" *State Street*, 149 F.3d at 1373, 47 USPQ2d at 1601-02 (see MPEP 2106.II.A). A practical application can be achieved through recitation of "a physical transformation outside the computer for which a practical application in the technological arts is either disclosed in the specification or would have been known to a skilled artisan", or "limited to a practical application within the technological arts" (MPEP 2106 IVB2(b)). Currently, claim 13 meets neither of these

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result, recitation of one or more of the following elements is suggested:

- The manipulation of data that represents a physical object or activity transformed from outside the computer (MPEP 2106 IVB2(b)(i)).
- A recitation of a physical transformations outside the computer, for example in the form of pre or post computer processing activity (MPEP 2106 IVB2(b)(i)).
- A direct recitation of a practical application in the technological arts
 (MPEP 2106 IVB2(b)(ii)).

Conclusion

- 7. Claims 1-13 are rejected.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Madeleine AV Nguyen whose telephone number is 571 272-7466. The examiner can normally be reached on Monday, Tuesday, Thursday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly A. Williams can be reached on 571 272-7471. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

October 3/2005

Madeleine AV Nguyen Primary Examiner Art Unit 2626